

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Mixture
Trade name : TUBALL MATRIX 603

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Use of the substance/mixture : The plastisizer based concentrate is to be used for rubber compounds

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Europe:	USA:	Asia:	China:	India:
OCSiAI Europe S.a.r.l. L-3364, Leudelange, 1, rue de la Poudrerie, Grand Duchy of Luxembourg	OCSiAI LLC 500 S Front St., Suite 860, Columbus, OH 43215, USA	OCSiAI Asia Pacific Co., Ltd. Office 208, Pilot Plant Bldg., Incheon Technopark 12 Gaetbeol-ro, Yeonsu-gu, Incheon, 406-840 Republic of Korea	OCSiAI Hong Kong Limited No. 1102, 11/F, Lippo Sun Plaza, 28 Canton Road, Tsim Sha Tsui, Kowloon, Hong Kong	OCSiAI PRIVATE LIMITED A504 Universal BusinessPark, Ansa Industrial Estate, Chandivali, Andheri (E) Mumbai 400072
T +352 27 99 03 73 09.00-17.00 GMT+2 europe@ocsial.com	T +1 415 906 5271 09.00-17.00 GMT-4 usa@ocsial.com	T +82 32 260 0407 09.00-17.00 GMT+9 asiapacific@ocsial.com	T +852 3575 3943 09:00-17:00; GMT+8 china@ocsial.com	T +91 22 4120 8615 09:00-17:00; GMT+5.5 india@ocsial.com

1.4. Emergency telephone number (24h/day) - for emergency only involving spill, leak, fire, exposure or accident call

EMEA : +44 1865 407333 (English) (Carechem 24)
East/South East Asia : +65 3158 1074 (English, Hindi, Japanese, Korean, Malay, Mandarin) (Carechem 24)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Serious eye damage/eye irritation, Category 2 H319
Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS07

Signal word (CLP) : Warning
Hazard statements (CLP) : H319 - Causes serious eye irritation.
Precautionary statements (CLP) : P264 - Wash hands thoroughly after handling.
P280 - Wear eye protection, protective gloves, protective clothing.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 - If eye irritation persists: Get medical advice/attention.

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

TUBALL MATRIX 603

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Distillates (petroleum), solvent-refined heavy paraffinic	(CAS-No.) 64741-88-4 (EC-No.) 265-090-8 (EC Index-No.) 649-454-00-7 (REACH-No.) 01-2119488706-23	90	Carc. Not classified – Note L
Single wall carbon nanotubes	(CAS-No.) Not assigned for EU-REACH (EC-No.) 943-098-9 (REACH-No.) 01-2120130006-75-0000	10	Eye Irrit. 2, H319

Note L : The classification as a carcinogen need not apply if it can be shown that the substance contains less than 3 % DMSO extract as measured by IP 346 'Determination of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions — Dimethyl sulphoxide extraction refractive index method', Institute of Petroleum, London. This note applies only to certain complex oil-derived substances in Part 3.

* Single wall carbon nanotubes TUBALL™

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Get medical attention.
- First-aid measures after skin contact : Take off immediately all contaminated clothing. Wash contaminated clothing before reuse. Wash with plenty of soap and water.
- First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention.
- First-aid measures after ingestion : Rinse mouth out with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention.

4.2. Most important symptoms and effects, both acute and delayed

- Symptoms/effects after inhalation : May cause respiratory irritation. Depression of the central nervous system, headaches, dizziness, drowsiness, loss of coordination.
- Symptoms/effects after skin contact : Prolonged or repeated contact may cause skin to become dry. Contact during a long period may cause light irritation.
- Symptoms/effects after eye contact : Causes serious eye irritation.
- Symptoms/effects after ingestion : Ingestion may cause nausea and vomiting. Diarrhea. Gastrointestinal complaints.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : For large fire: Foam. Water fog. For small fire: Dry chemical. Carbon dioxide (CO₂). Sand/earth. ABC-powder.
- Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

- Fire hazard : Vapours may form explosive mixture with air. Gas/vapour heavier than air. May accumulate in confined spaces, particularly at or below ground level. Flash back over considerable distance.
- Hazardous decomposition products in case of fire : Incomplete combustion releases dangerous carbon monoxide, carbon dioxide and other toxic gases.

5.3. Advice for firefighters

- Firefighting instructions : Prevent fire fighting water from entering the environment.
- Protection during firefighting : Full face mask. Positive pressure self-contained breathing apparatus (SCBA).

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

- Protective equipment : Wear suitable protective clothing.

TUBALL MATRIX 603

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Emergency procedures : Ensure adequate ventilation. Evacuate area. Avoid contact with skin and eyes. Avoid inhalation of vapours. Do not touch or walk on the spilled product. No open flames, no sparks, and no smoking.

6.1.2. For emergency responders

Protective equipment : Wear suitable protective clothing, gloves and eye/face protection. In case of fire: Positive pressure self-contained breathing apparatus (SCBA).

Emergency procedures : Evacuate unnecessary personnel. Provide adequate ventilation. Avoid contact with skin and eyes. Avoid inhalation of vapours. Collect spillage.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Collect contaminated extinguishing water separately and must not enter the sewage system.

6.3. Methods and material for containment and cleaning up

For containment : Clean spills promptly. Ventilate affected area. Stop leak if safe to do so.

Methods for cleaning up : Take up mechanically (sweeping, shovelling) and collect in suitable container for disposal. Use non-sparking tools.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Avoid contact with skin, eyes and clothing. Carry out operations in the open/under local exhaust/ventilation or with respiratory protection. Avoid breathing dust, fume. To prevent thermal burns avoid contact with hot product. Take precautionary measures against static discharge. Wear personal protective equipment.

Hygiene measures : Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse. Regular cleaning of equipment, work area and clothing. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Gloves must be periodically inspected and changed in case of wear, perforations or contaminations.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in dry, well-ventilated area. Store at ambient temperature. Keep container tightly closed. Protect from sunlight.

Incompatible products : Strong oxidizing agents. Strong acids. Halogens.

Maximum storage period : 1 year

Storage temperature : -25 / +60 °C

Heat and ignition sources : Keep away from open flames, hot surfaces and sources of ignition. No smoking.

Information on mixed storage : Store away from water (including sewage plant).

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Distillates (petroleum), solvent-refined heavy paraffinic	
Belgium - Occupational Exposure Limits	
Limit value (mg/m ³)	5 mg/m ³ (Mineral oil mist)
Short time value (mg/m ³)	10 mg/m ³ (Mineral oil mist)
Bulgaria - Occupational Exposure Limits	
OEL TWA (mg/m ³)	5 mg/m ³ (Oil - mineral, petroleum)
Czech Republic - Occupational Exposure Limits	
Expoziční limity (PEL) (mg/m ³)	5 mg/m ³ (Mineral oils, aerosol)
Expoziční limity (NPK-P) (mg/m ³)	10 mg/m ³ (Mineral oils, aerosol)
Denmark - Occupational Exposure Limits	
Grænsevædi (8 timer) (mg/m ³)	1 mg/m ³ OLJETÅGE, MINERALOLIEPARTIKLER
Finland - Occupational Exposure Limits	
HTP-arvo (8h) (mg/m ³)	5 mg/m ³

TUBALL MATRIX 603

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Distillates (petroleum), solvent-refined heavy paraffinic	
Greece - Occupational Exposure Limits	
OEL TWA (mg/m ³)	5 mg/m ³ (Paraffin oil mist)
Hungary - Occupational Exposure Limits	
MK-érték	5 mg/m ³ (Oil smog - mineral oil)
Ireland - Occupational Exposure Limits	
OEL (8 hours ref) (mg/m ³)	0,2 mg/m ³ (Mineral oil used in metal working, inhalable fraction)
Lithuania - Occupational Exposure Limits	
IPRV (mg/m ³)	1 mg/m ³ (Oil mist, including smoke)
TPRV (mg/m ³)	3 mg/m ³ (Oil mist, including smoke)
Netherlands - Occupational Exposure Limits	
Grenswaarde TGG 8H (mg/m ³)	5 mg/m ³
Poland - Occupational Exposure Limits	
NDS (mg/m ³)	5 mg/m ³ Highly refined mineral oils with the exception of cutting fluids, inhalable fraction
Portugal - Occupational Exposure Limits	
OEL TWA (mg/m ³)	5 mg/m ³
Romania - Occupational Exposure Limits	
OEL TWA (mg/m ³)	5 mg/m ³ Mineral oils
OEL STEL (mg/m ³)	10 mg/m ³ Mineral oils
Slovakia - Occupational Exposure Limits	
NPHV (priemerná) (mg/m ³)	1 mg/m ³ Liquid mineral oil mist, fumes
NPHV (priemerná) (ppm)	5 ppm Liquid mineral oil mist, fumes
OEL STEL (mg/m ³)	3 mg/m ³ Liquid mineral oil mist, fumes
OEL STEL (ppm)	15 ppm Liquid mineral oil mist, fumes
Spain - Occupational Exposure Limits	
VLA-ED (mg/m ³)	5 mg/m ³
VLA-EC (mg/m ³)	10 mg/m ³
Sweden - Occupational Exposure Limits	
nivågränsvärde (NVG) (mg/m ³)	1 mg/m ³
kortidsvärde (KTV) (mg/m ³)	3 mg/m ³
Norway - Occupational Exposure Limits	
Grenseverdier (AN) (mg/m ³)	1 mg/m ³
USA - ACGIH - Occupational Exposure Limits	
ACGIH TWA (mg/m ³)	5 mg/m ³
Distillates (petroleum), solvent-refined heavy paraffinic	
DNEL/DMEL (Workers)	
Long-term - local effects, inhalation	5.4 mg/m ³ - 8 Hours
DNEL/DMEL (General population)	
Long-term - local effects, inhalation	1.2 mg/m ³ - 24 Hours
TUBALL™	
DNEL/DMEL (Workers)	
Acute - systemic effects, dermal	no hazard identified
Acute - systemic effects, inhalation	low hazard (no threshold derived)
Acute - local effects, dermal	no hazard identified
Acute - local effects, inhalation	low hazard (no threshold derived)
Long-term - systemic effects, dermal	no hazard identified
Long-term - local effects, dermal	no hazard identified
Long-term - systemic effects, inhalation	low hazard (no threshold derived)
Long-term - local effects, inhalation	low hazard (no threshold derived)

TUBALL MATRIX 603

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

DNEL/DMEL (General population)	
Acute - systemic effects, dermal	no hazard identified
Acute - systemic effects, inhalation	low hazard (no threshold derived)
Acute - systemic effects, oral	no hazard identified
Acute - local effects, dermal	no hazard identified
Acute - local effects, inhalation	no hazard identified
Long-term - systemic effects, oral	no hazard identified
Long-term - systemic effects, inhalation	low hazard (no threshold derived)
Long-term - systemic effects, dermal	no hazard identified
Long-term - local effects, dermal	no hazard identified
Long-term - local effects, inhalation	no hazard identified
PNEC (Water)	
PNEC aqua (freshwater)	no hazard identified
PNEC aqua (marine water)	no hazard identified
PNEC (Sediment)	
PNEC sediment (freshwater)	no hazard identified
PNEC sediment (marine water)	no hazard identified
PNEC (Soil)	
PNEC soil	no hazard identified
PNEC (Oral)	
PNEC oral (secondary poisoning)	no potential to cause toxic effects if accumulated (in higher organisms) via the food chain
PNEC (STP)	
PNEC sewage treatment plant	no data available: testing technically not feasible

8.2. Exposure controls

Personal protective equipment:

Safety glasses. Gloves. Protective clothing.

Hand protection:

Chemically resistant protective gloves. EN 374. The suitability for a specific workplace should be discussed with the producers of the protective gloves

Eye protection:

Chemical goggles or safety glasses. EN 166

Skin and body protection:

Protective clothing (with elasticated cuffs and closed neck). antistatic boots. EN 14605

Respiratory protection:

[In case of inadequate ventilation] wear respiratory protection. Wear a respirator conforming to EN140 with Type A/P2 filter or better

Personal protective equipment symbol(s):



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: Viscous. Paste.
Colour	: Black.
Odour	: Slight.
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available

TUBALL MATRIX 603

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: > 98 °C (Distillates (petroleum), solvent-refined heavy paraffinic)
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: Not explosive.
Oxidising properties	: Non oxidizing.
Explosive limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

None under normal use.

10.4. Conditions to avoid

Take precautionary measures against static discharges. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

10.5. Incompatible materials

Strong oxidizing agents. Strong acids. Halogens.

10.6. Hazardous decomposition products

Incomplete combustion releases dangerous carbon monoxide, carbon dioxide and other toxic gases.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

Distillates (petroleum), solvent-refined heavy paraffinic	
LD50 oral rat	> 5000 mg/kg OECD 420
LD50 dermal rabbit	> 5000 mg/kg OECD 402
LC50 inhalation rat (Dust/Mist - mg/l/4h)	> 5 mg/l/4h OECD 403

Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Additional information	: Distillates (petroleum), solvent-refined heavy paraffinic (CAS n. 64741-88-4): Classified based on DMSO extract content < 3% (Regulation (EC) 1272/2008, Annex VI, Part 3, Note L)
Reproductive toxicity	: Not classified

TUBALL MATRIX 603

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Single wall carbon nanotubes	
NOAEL (animal/female, F0/P)	> 1000 mg/kg bw/day - OECD 422
NOAEL (animal, F1)	> 1000 mg/kg bw/day - for adverse effects on prenatal development (conceptus to birth) - OECD 422
NOAEL (animal, F1)	> 1000 mg/kg bw/day - for adverse effects on postnatal development (pup) - OECD 422

STOT-single exposure : Not classified
STOT-repeated exposure : Not classified

Single wall carbon nanotubes	
NOAEL (oral, rat, 90 days)	> 1000 mg/kg bodyweight/day - OECD 422

Aspiration hazard : Not classified

SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute) : Not classified
Hazardous to the aquatic environment, long-term (chronic) : Not classified

Distillates (petroleum), solvent-refined heavy paraffinic	
LC50 fish - 96h	> 100 mg/l Oncorhynchus mykiss (Rainbow trout) - OECD 203
EC50 algae - 72h	> 100 mg/l Pseudokirchnerella subcapitata - OECD 201
NOEC chronic fish	> 1000 mg/l Oncorhynchus mykiss (Rainbow trout) - QSAR Petrotox
NOEC chronic crustacea - 21 days	10 mg/l Daphnia magna (Water flea) - OECD 211

12.2. Persistence and degradability

Distillates (petroleum), solvent-refined heavy paraffinic	
Biodegradation	31 % - 28 days - OECD 301B-301F

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

Component	
Distillates (petroleum), solvent-refined heavy paraffinic	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
Single wall carbon nanotubes	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste) : Dispose of this material and its container at hazardous or special waste collection point.
Waste treatment methods : Disposal through controlled incineration or authorised waste dump.
Sewage disposal recommendations : Prevent entry to sewers and public waters.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

TUBALL MATRIX 603

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.2. UN proper shipping name				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.3. Transport hazard class(es)				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.4. Packing group				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.5. Environmental hazards				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
No supplementary information available				

14.6. Special precautions for user

Overland transport

Not regulated

Transport by sea

Not regulated

Air transport

Not regulated

Inland waterway transport

Not regulated

Rail transport

Not regulated

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations ►

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:	
Reference code	Applicable on
3(b)	TUBALL MATRIX 603

Other information, restriction and prohibition regulations : EN 16143:2013 Petroleum products - Determination of content of Benzo(a)pyrene (BaP) and selected polycyclic aromatic hydrocarbons (PAH) in extender oils according to Annex XVII to the REACH Regulation (EC) No 1907/2006, entry 50:
Benzo[a]pyrene (BaP): < 1mg/kg
8 PAH (Polycyclic aromatic hydrocarbons): <10 mg/kg.

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals as lastly amended by the Regulation (EU) 2019/1701 of 23 July 2019.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

15.1.2. National regulations

Germany

Employment restrictions : Observe restrictions according Act on the Protection of Working Mothers (MuSchG)
Observe restrictions according Act on the Protection of Young People in Employment (JArbSchG)

Water hazard class (WGK) : WGK 1, Slightly hazardous to water (Classification according to AwSV, Annex 1)

Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

TUBALL MATRIX 603

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Netherlands

SZW-lijst van kankerverwekkende stoffen	: Distillates (petroleum), solvent-refined heavy paraffinic is listed
SZW-lijst van mutagene stoffen	: Distillates (petroleum), solvent-refined heavy paraffinic is listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding	: None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid	: None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling	: None of the components are listed

Denmark

Classification remarks : Emergency management guidelines for the storage of flammable liquids must be followed

15.2. Chemical safety assessment

For the following substances of this mixture a chemical safety assessment has been carried out

Single wall carbon nanotubes

SECTION 16: Other information

Abbreviations and acronyms:

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BLV	Biological limit value
CAS-No.	Chemical Abstract Service number
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC50	Median effective concentration
EC-No.	European Community number
EN	European Standard
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
vPvB	Very Persistent and Very Bioaccumulative
WGK	Water Hazard Class

TUBALL MATRIX 603

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Full text of H- and EUH-statements:	
Carc. Not classified	Carcinogenicity Not classified
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
H319	Causes serious eye irritation.

Revision : All recent revision(s) are noted by a bold triangle pointed to right '►'.
Disclaimer : This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product. It is the user's responsibility to take mentioned precaution measures and ensure that this information is complete and sufficient for the use of this product.

SDS EU (REACH Annex II) OCSiAl

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